IN THE CLAIMS:

Please replace claims 1-61 and add new claims 62-76 as follows:

(1) g

- (Amended) A protein or peptide capable of restoring the MHC-II expression in cells from MHC-II deficiency patients in complementation group B and comprising all or part of the amino-acid sequence shown in figure 2.
- 2. (Amended) The protein or peptide according to claim 1 wherein the cells are BLS 1 cell line, Na cell line or Ba cell line.
- 3. (Amended) The protein or peptide according to claim 1 wherein the MHC-II is HLA-DR, HLA-DP or HLA-DQ.
- 4 (Amended) A protein or peptide comprising the amino acid sequence shown in figure 2.
- 5. (Amended) A protein or peptide which is the homologous protein of a protein or a peptide of claim 1 in another species than human.
 - 6. (Amended) The protein or peptide of claim 5 wherein the species is pig.

- 7. (Amended) Antibodies capable of specifically recognizing a peptide or protein according to claim 1.
- 8. (Amended) The antibodies according to claim 7 wherein said antibodies are monoclonal.
- 9. (Amended) The antibodies according to claim 7 wherein said antibodies are single chain antibodies.
- 10. (Amended) The antibodies according to claim 7 wherein said antibodies are capable of inhibiting a function or an activity of said protein or a peptide.
- 11. (Amended) A nucleic acid molecule encoding a protein or a peptide according to claim 1.
- 12. (Amended) The nucleic acid molecule according to claim 11 comprising all or part of the nucleotide sequence illustrated in figure 2.
- 13. (Amended) A nucleic acid molecule comprising a sequence complementary to the nucleic acid molecule of claim 11.

- 14. (Amended) A nucleic acid molecule capable of hybridizing in stringent conditions, with the nucleic acid molecule of claim 11.
- (Amended) A nucleic acid molecule comprising at least one of the sequences illustrated in figures 2.
- 16. (Amended) The nucleic acid molecule of claim 11 comprising all or part of the DNA molecule encoding the RFXANK gene of a species other than human.
- 17. (Amended) The nucleic acid molecule of claim 16 wherein the species is pig.
- 18. (Amended) A nucleic acid molecule comprising a sequence complementary to the nucleic acid molecule of claim 14.
- 19. (Amended) An anti-sense molecule or ribozyme comprising the nucleic acid molecule of claim 13.
 - 20. (Amended) A vector comprising the nucleic acid molecule of claim 11.

- 21. (Amended) A process for identifying inhibitors which have the capacity to inhibit a function or an activity of a protein or a peptide according to claim 1 comprising detecting or measuring of said function or activity after intervention of the potential inhibitor.
- 22. (Amended) The process according to claim 21 wherein said function or activity is the expression of MHC class II molecules.
- 23. (Amended) The process according to claim 22 wherein the expression of MHC class II molecules is measured at the surface of cells.
- 24. (Amended) The process according to claim 22 wherein the expression of MHC class II is measured at the mRNA level or in the cells.
- 25. (Amended) The process according to claim 23 wherein said cells are B lymphocyte cell lines with constitutive expression of MHC class II or interferon gamma inducible cell lines.
- 26. (Amended) The process according to claim 21 wherein said function or activity is the formation of RFX complex.

- 27. (Amended) The process according to claim 21 wherein said function or activity is the binding of the RFX complex to its DNA target.
- 28. (Amended) The process according to claim 27 wherein the measure or detection of the function or activity is done by gel retardation assay.
- 29. (Amended) The process according to claim 21, wherein said function or activity is the interaction between the RFX complex and at least one of transcription factors X2BP, NF-Y and CIITA.
- 30. (Amended) The process according to claim 21 wherein said function or activity is the correction of the MHC II expression defect of cell lines from complementation group B.
- 31. (Amended) A process for identifying inhibitors which have the capacity to inhibit the synthesis of a protein or a peptide according to claim 1 comprising detection or measuring a product which contributes to the synthesis of said protein or peptide after intervention of the potential inhibitor.
- 32. (Amended) The process according to claim 31 wherein said product is mRNA.

- 33. (Amended) The process according to claim 21 comprising a preliminary screening of said potential inhibitors.
- 34. (Amended) A process of screening which comprises screening for the binding of molecules to the peptide or a protein of claim 1 or a part thereof.
- 35. (Amended) The process according to claim 34 wherein the binding of molecules is detected by ligand-induced charge in protein conformation.
- 36. (Amended) The process according to claim 34 wherein the binding of molecules is detected by ligand-induced displacement of molecules first identified as binding to a peptide or a protein of capable of restoring the MHC-II expression in cells from MHC-II deficiency patients in complementation group B and comprising all or part of the amino-acid sequence shown in figure 2.
- 37. (Amended) A process for identifying inhibitors which have the capacity to inhibit a function, an activity or the synthesis of a protein or a peptide capable of restoring the MHC-II expression in cells from MHC-II deficiency patients in complementation group B and comprising all or part of the amino-acid sequence shown in figure 2 comprising the designing of said inhibitors on the basis of the three dimensional structure of a protein or a peptide according to claim 1/.

recruitment.

- 38. (Amended) The process according to claim 37 wherein the three dimensional structure is obtained using X-Ray structure analysis or spectroscopic methods.
- 39. (Amended) A process for identifying an inhibitor which has the capacity to inhibit recruitment of CIITA or to inhibit the binding or fixation of CIITA to the MHC-class II enhanceosome, said process comprising the following steps:
- a DNA fragment consisting or comprising the W-X-X2-Y box region of the MHC II promoters is contacted with a mixture of cellular proteins comprising proteins binding to the W-X-X2-Y box region and CIITA, and with the substance to be tested;

the thus formed DNA-protein complex is separated from the reaction mixture;
the presence or absence of CIITA in the proteins obtained after step ii) is detected,
absence of CIITA indicating that the substance under test has a capacity to inhibit CIITA

- 40. (Amended) The process according to claim 39, wherein the DNA-protein complex is separated by fixation to a solid support able to purify said DNA-protein complex.
- 41. (Amended) The process according to claim 40, wherein a solid support comprises magnetic beads or a microtitration plate.

- 42. (Amended) The process according to claim 41, wherein a DNA fragment consisting or comprising the W-X-X2-Y box region of the MHC II promoters is biotinylated.
- 43. (Amended) The process according to claim 39, wherein one or several wash(es) are carried out between step (ii) and step (iii) and/or wherein proteins binding DNA are separated from the DNA carried out between step (ii) and step (iii).
- 44. (Amended) The process according to claim 39, wherein the presence of CIITA in the proteins obtained after step iii) is detected by antibodies specific of CIITA.
- 45. (Amended) The process according to claim 39, wherein CIITA is chosen among: a recombinant or recombinantly produced, a mutant CIITA, a mutant CIITA which has greater affinity for the MHC-class II enhanceosome than a wild-type CIITA, a truncated version of a wild-type CIITA.
- 46. (Amended) The process according to claim 39, wherein CIITA is tagged or wherein CIITA comprises a Fluorescent Protein or an epitope.
- 47. (Amended) The process according to claim 39, wherein the substances to be tested are CIITA dominant negative mutants.

- 48. (Amended) The process according to claim 39, wherein the mixture of cellular proteins and CIITA comprises a nuclear extract of CIITA+ cells.
- 49. (Amended) The process according to claim 39 further comprising a step of separating the proteins bound to the DNA from the DNA and optionally detecting the presence or absence of any of the proteins capable of binding to the W-X-X2-Y region of the MHC-class II promoters, the absence of any of these proteins indicating that the substance under test is capable of inhibiting the binding of said protein to DNA.
 - 50. (Amended) An inhibitor identifiable by a process according to claim 21.
- 51. (Amended) The inhibitor according to claim 50 which is an antibody capable of specifically recognizing a protein or peptide capable of restoring the MHC-II expression in cells from MHC-II deficiency patients in complementation group B and comprising all or part of the amino-acid sequence shown in figure 2.
- 52. (Amended) The inhibitor according to claim 50 which is an antibody, a single chain antibody, a dominant negative mutant, a protein, a peptide, a small molecular weight molecule, a ribozyme or an anti-sense molecule.
 - 53. (Amended) Inhibitors of a protein or a peptide according to claim 1

- 54. (Amended) A nucleic acid molecule encoding an inhibitor of claim 50.
- 55. (Amended) A method of using the inhibitor according to claim 50 in therapy comprising administering said inhibitor to a patient in need of said therapy.
- 56. (Amended) A pharmaceutical composition comprising an inhibitor according to claim 50 in association with a pharmaceutically acceptable vehicle.
- 57. (Amended) A method of using an inhibitor according to claim 50 for the preparation of a medicament for use in therapy or prevention of diseases associated with aberrant expression of MHC class II genes.
- 58. (Amended) A method of using an inhibitor according to claim 50 as an immunosuppressive agent comprising administering said inhibitor to a patient in need of said immunosuppressive agent.
- 59. (Amended) A protein complex comprising cellular proteins capable of binding to the W-X-X2-Y box of MHC-class II promoters and CIITA.
- 60. (Amended) The complex according to claim 59 wherein CIITA is: a recombinant or recombinantly produced CIITA, a mutant CIITA, a mutant CIITA which

has greater affinity for the MHC-class II enhanceosome than a wild-type CIITA or a truncated version of a wild-type CIITA.

61. (Amended) Antibodies capable of specifically recognizing a protein complex according to claim 59.

62. (New) A protein or peptide comprising an amino acid sequence having at least 80% identity or similarity with the amino acid sequence shown in figure 2.

63. (New) The protein or peptide of claim 62 wherein said amino acid sequence has at least 90% identity or similarity with the amino acid sequence show in figure 2.

64. (New) A protein or peptide comprising a functional part of the amino acid sequence shown in figure 2.

65. (New) A protein or peptide comprising a functional part of an amino acid sequence having at least 80% homology with the amino acid sequence shown in figure 2.

66. (New) The protein or peptide of claim 65/wherein said amino acid sequence has at least 90% homology with the amino acid sequence shown in figure 2.

- 67. (New) A nucleic acid molecule comprising a sequence exhibiting at least 90% identity or similarity with any of the sequences illustrated in figure 2.
- (New) A nucleic acid molecule comprising a functional part of any of the sequences illustrated in figure 2.
- 69. (New) A process for identifying inhibitors which have the capacity to inhibit a function or an activity of a nucleic acid molecule according to claim 12 comprising detecting or measuring of said function or activity after intervention of the potential inhibitor.
- 70. (New) A process for identifying inhibitors which have the capacity to inhibit the synthesis of a nucleic acid molecule according to claim 11 comprising detection or measuring a product which contributes to the synthesis of said protein or peptide after intervention of the potential inhibitor.
- 71. (New) The process according to claim 69 comprising a preliminary screening of said potential inhibitors.
- 72. (New) The process according to claim 31 comprising a preliminary screening of said potential inhibitors.

- 73. (New) The process according to claim 70 comprising a preliminary screening of said potential inhibitors.
- 74. (New) A process of screening which comprises screening for the binding of molecules to the nucleic acid molecule of claim 1/2 or a part thereof.
- 75. (New) A process for identifying inhibitors which have the capacity to inhibit a function, an activity or the synthesis of a nucleic acid molecule encoding a protein or a peptide capable of restoring the MHC-II expression in cells from MHC-II deficiency patients in complementation group B and comprising all or part of the amino-acid sequence shown in figure 2 comprising the designing of said inhibitors on the basis of the three-dimensional structure of a protein or peptide according to claim.
 - 76. (New) Inhibitors of a nucleic acid molecule according to claim 11.